

In the Claims

1. (Currently amended) A plasma processing apparatus having a vacuum chamber for generating plenty of inductively coupled plasmas therein, comprising:

a first very high frequency power source that supplies a very high frequency power ~~having a frequency of 20 to 300MHz~~ and

a plurality of antenna units, each comprising a coil consisting of a single turn, being parallel-connected with each other and receiving the very high frequency power from the first very high frequency power source;

an antenna being comprised of the plurality of antenna unit;

wherein the vacuum chamber has a reaction space where the inductively coupled plasmas are generated by the plurality of antenna units.

2. (Original) An apparatus according to claim 1, wherein one of the antenna units has at least one variable load that is connected in series.

3. (Original) An apparatus according to claim 2, wherein the antenna units having at least one variable load is located in an outer part of the antenna.

4. (Original) An apparatus according to claim 3, wherein the variable load is a variable capacitor.

5. (Original) An apparatus according to claim 1, further comprising an impedance matching box that is connected to the very high frequency power source and the antenna.

6. (Currently amended) An apparatus according to claim 5, wherein the parallel-connected antenna units maintain a resonance state ~~therebetween~~ therebetween.

7. (Original) An apparatus according to claim 6, further comprising a chuck in the vacuum chamber for mounting a substrate thereon.

8. (Original) An apparatus according to claim 7, further comprising a second very high frequency power source that supplies a very high frequency power having a frequency of 20 MHz to 300 MHz to the chuck.

9. (Currently amended) An RF power supplying apparatus, comprising:
a very high frequency power source supplying a very high frequency power having a frequency of ~~20 MHz to 300 MHz~~ greater than 30 MHz, - col. 24
an impedance matching box connected to the very high frequency power source;
a plurality of antenna units, each comprising a coil antenna, connected in parallel with each other; and
an antenna being comprised of the plurality of antenna units. ~~and~~
~~wherein each antenna has at least one variable capacitor and coil antenna.~~

10. (New) A plasma processing apparatus having a vacuum chamber for generating plenty of inductively coupled plasmas therein, comprising:

a first very high frequency power source that supplies a very high frequency power having a frequency greater than 30MHz; and

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cont a plurality of antenna units being parallel-connected with each other and receiving the very high frequency power from the first very high frequency power source;

an antenna being comprised of the plurality of antenna unit;

wherein the vacuum chamber has a reaction space where the inductively coupled plasmas are generated by the plurality of antenna units.

11. (New) An RF power supplying apparatus, comprising:
a very high frequency power source supplying a very high frequency power;
an impedance matching box connected in parallel with each other;
a plurality of antenna units, each comprising an antenna coil consisting of a single turn, connected in parallel with each other; and
an antenna being comprised of the plurality of antenna units.
